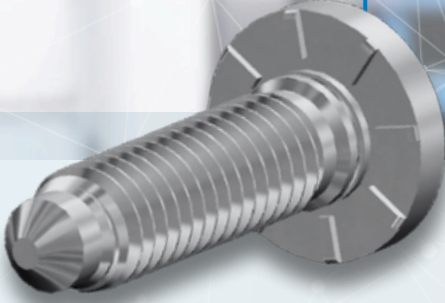




RIFAST® OBA

FOR COMPONENTS WITH
THICKNESSES
BETWEEN 0.75 AND 8.0 MM

OPTIMAL FIT SOLUTIONS – Technical Product Data Sheet

RIFAST® OBA STAKING BOLT

The large thickness range clinching bolt product line mechanically joined by means of automated insertion technology

› THE RIFAST® SYSTEM ADVANTAGES

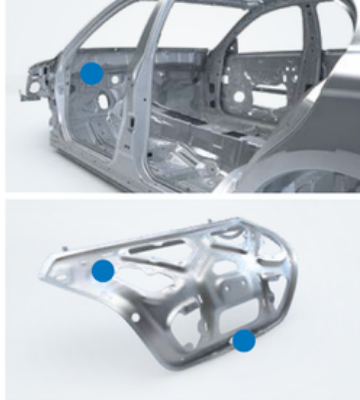
Systems expertise from designing, manufacturing clinch fasteners (studs, nuts), and automation equipment to consultation and realization in serial production

With over 25 years of expertise as a full system provider, RIFAST® is the partner for developing economical solutions for reliable integration of mechanically joined clinch fasteners. The systems approach of clinching fasteners through automation equipment for in-die and off-line operations guarantees the optimal joint connection. Mechanical joining with the RIFAST® staking die designed to the customer component ensures consistent performance values in addition to eliminating thermal influences and distortions observed during welding.

› THE RIFAST® OBA STAKING BOLT ADVANTAGE

Compact, reliable, weight-optimized, and secure staking bolt for a wide range of thicknesses and materials

Optimized for covering a vast range of metal thickness applications, the RIFAST® OBA is the universal solution for sheet metal parts, extruded profiles, and castings. Whether this is with steels, aluminum, or copper alloys, the staking bolt performs through its compact and lightweight characteristics. Available with different thread ends in accordance with DIN EN ISO 4753 and MATHread®, the clinch bolt offers a flat contact surface for attachment of mating parts (no protrusion on component underside after joining process). Depending on component material and thickness, watertight joining is possible - with no cracks on the clinch bolt. The RIFAST® OBA is the solution for components with thicknesses between 0.75 and 8.0 mm.



◀ **Application examples**
RIFAST® OBA
i.e. body panels,
dashboard supports,
aluminum die casting
parts, and airbags

▶ TECHNICAL DATA

Thread Size	M6, M8, M10, M12
Strength Grade	8.8, 9.8, 10.9 (DIN EN ISO898-1)
Surface Coating	OEM-approved coatings
Tensile Strength	150 - 800 N/mm ²
Component materials	Steels, aluminum alloys, copper alloys
Automation Equipment	Press, C-frame (automatic or manual)

Thread Size	M6	M8	M10	M12
Application Thickness (mm)	0.75 - 8.0	0.75 - 8.0	1.20 - 8.0	1.20 - 8.0
Push-out (kN)¹	4	4	5	6
Torque-out (Nm)¹	16	38	60	110
Water Tightness¹	IPX7	IPX7	IPX7	IPX7

¹Performance values for reference, derived from testing in a component made of steel HSLA 420XF with a thickness of 2.0 mm by RIFAST® Application Engineering

Performance values for push-out and torque-out are dependent on the component material, the application thickness and in combination with RIFAST® staking die. Performance values for other component materials and application thickness can be validated through RIFAST® Application Engineering.

▶ MECHANICAL JOINING PROCESS AND CROSS-SECTION

